

SPRINKLER HEAD SCHEDULE													
	SYMBOL	TYPE	STYLE	RESPONSE	COVERAGE	COLOR	DISCHARGE COEFFICIENT (K)	ORIFICE	TEMPERATURE	MANUFACTURER		REMARKS	
	●	PENDENT	SEMI-RECESSED	QUICK	STANDARD	WHITE	5.6K	1/2"	155 F°	VICTALIC		-	
	○	UPRIGHT	EXPOSED	QUICK	STANDARD	BRASS	5.6K	1/2"	155 F°	F1FR		-	
NOTE: FINAL COLOR SELECTION TO BE APPROVED BY OWNER PRIOR TO INSTALLATION													

BACKFLOW PREVENTER SCHEDULE										
UNIT TAG	SIZE	LOCATION	SERVICE	BODY MATERIAL	TEMPERATURE RANGE	MAX WORKING PRESSURE	MANUFACTURER			
							MODEL		REMARKS	
BFP-1	2	PUMP HOUSE	FIRE PROTECTION - FILL	BRONZE	33°F MIN - 140°F MAX	180	WATTS SERIES 909	-		

## Fire Protection Specifications

WORK OF THIS SECTION SHALL BE COVERED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK OF THIS SECTION AS SHOWN ON THE DRAWINGS, AS SPECIFIED HEREIN, AND/OR AS REQUIRED BY JOB CONDITIONS.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND FIRE PROTECTION EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL FIXTURES, DEVELOP AND SUBMIT COORDINATION DRAWINGS.

THE WORK UNDER THIS SECTION SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE THE FIRE PROTECTION WORK AS INTENDED.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AS NECESSARY TO PROVIDE A COMPLETE INSTALLATION INCLUDING COORDINATION, SYSTEM CHECK-OUT AND START-UP ON EACH ITEM AND SYSTEM.

THIS CONTRACTOR SHALL INFORM HIMSELF FROM THE GENERAL CONSTRUCTION SPECIFICATIONS AND PLANS, OF THE EXACT DIMENSION OF FINISHED WORK AND OF THE HEIGHT OF FINISHED CEILINGS IN ALL ROOMS WHERE EQUIPMENT OR PIPES ARE TO BE PLACED AND ARRANGE HIS WORK IN ACCORDANCE WITH THE SCHEDULE OF INTERIOR FINISHES, AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

MANUFACTURERS QUALIFICATIONS: FIRMS REGULARLY ENGAGED IN THE MANUFACTURE OF EXTINTERS, APPLIANCES, PIPES, AND PIPE FITTINGS OF TYPES AND SIZES REQUIRED, WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN 5 YEARS.

MATERIAL, QUALIFICATIONS SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL/FEDERAL CODES AND REGULATIONS WHICH MAY APPLY, AND NOTHING IN THESE SPECIFICATIONS SHALL BE INTERPRETED AS AN INFRINGEMENT OF SUCH CODES OR REGULATIONS.

### DEFINITIONS

FINISHED SPACES: SPACES OTHER THAN MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, TURNED SPACES, PIPE CHASES, AND UNHEATED SPACES IMMEDIATELY BELOW ROOF SPACES ABOVE CEILINGS, UNENCLOSED SPACES, CRAWL SPACES, AND TUNNELS.

EXPOSED INTERIOR INSTALLATIONS: EXPOSED TO VIEW IN ROOMS. EXAMPLES INCLUDE FINISHED OCCUPIED SPACES AND MECHANICAL EQUIPMENT ROOMS.

CONCEALED INTERIOR INSTALLATIONS: CONCEALED FROM VIEW AND PROTECTED FROM PHYSICAL CONTACT BY BUILDING OCCUPANTS. EXAMPLES INCLUDE ABOVE CEILINGS AND IN CHASES.

### QUALITY ASSURANCE

STEEL SUPPORT WELDING: QUALIFY PROCESSES AND OPERATORS ACCORDING TO AWS D1.1, "STRUCTURAL WELDING CODE-STEEL."

STEEL PIPE WELDING: QUALIFY PROCESSES AND OPERATORS ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE SECTION IX, "WELDING AND BRAZING QUALIFICATIONS."

COMPLY WITH PROVISIONS IN ASME B31 SERIES, "CODE FOR PRESSURE PIPING."

CERTIFY THAT EACH WELDER HAS PASSED AWS QUALIFICATION TESTS FOR WELDING PROCESSES INVOLVED AND THAT CERTIFICATION IS CURRENT.

### DELIVERY, STORAGE, AND HANDLING

DELIVER PIPES AND TUBES WITH FACTORY-APPLIED END CAPS. MAINTAIN END CAPS THROUGH SHIPPING, STORAGE, AND HANDLING TO PREVENT PIPE END DAMAGE AND TO PREVENT ENTRANCE OF DIRT, DEBRIS, AND MOISTURE.

### COORDINATION

PREPARE AND SUBMIT COORDINATION DRAWINGS.

CLOSELY SCHEDULE THE WORK SO THAT WORK WILL BE INSTALLED AT THE PROPER TIME WITHOUT DELAYING THE COMPLETION OF THE ENTIRE PROJECT.

WHERE THE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO THE WORK OF OTHER TRADES, OR WHERE THERE IS EVIDENCE THAT THE WORK WILL INTERFERE WITH THE WORK OF OTHER TRADES, ARRANGE SPACE CONDITIONS TO MAKE A SATISFACTORY ADJUSTMENT. IF WORK IS INSTALLED BEFORE COORDINATING WITH OTHER TRADES, MAKE NECESSARY CHANGES TO THE WORK TO CORRECT THE CONDITION WITHOUT ADDITIONAL COST TO THE OWNER.

PREPARE COMPLETE SET OF DRAWINGS SHOWING ALL NECESSARY SLAB OPENINGS AND STRUCTURAL SUPPORTS THAT REQUIRE STRUCTURAL REPAIRING. DRAWINGS SHALL CLEARLY INDICATE SIZES AND LOCATION RELATIVE TO ESTABLISHED COLUMN LINES. DRAWINGS SHALL BE COMPLETED IN SUFFICIENT TIME TO ALLOW FOR STRUCTURAL STEEL FABRICATION SO AS NOT TO DELAY PROJECT SCHEDULE.

SHOP DRAWING SUBMISSIONS SHALL DEMONSTRATE KNOWLEDGE OF THE WORK OF OTHER TRADES, AND SHALL SHOW THE LOCATIONS OF THE WORK OF OTHER TRADES WHICH AFFECTS THE WORK OF THIS CONTRACT.

ARRANGE FOR PIPE SPACES, CHASES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION TO ALLOW FOR FIRE PROTECTION INSTALLATIONS.

COORDINATE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED.

COORDINATE REQUIREMENTS FOR ACCESS PANELS AND DOORS FOR FIRE PROTECTION ITEMS REQUIRING ACCESS THAT ARE CONCEALED BEHIND FINISHED SURFACES.

### COORDINATION DRAWINGS

SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER REVIEWED OR RETURN AS CORRECTED PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.

AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVIEWED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHERS TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK.

PLUMBING CONTRACTOR

## Sprinkler Head Schedule

	SYMBOL	TYPE	STYLE	RESPONSE	COVERAGE	COLOR	DISCHARGE COEFFICIENT (K)	ORIFICE	TEMPERATURE	MANUFACTURER	MODEL	SIN	REMARKS
	●	PENDENT	SEMI-RECESSED	QUICK	STANDARD	WHITE	5.6 K	1/2"	155 F	VICTALIC	V382		-
	○	UPRIGHT	EXPOSED	QUICK	STANDARD	BRASS	5.6 K	1/2"	155 F		F1FR	R3525	-
NOTE: FINAL COLOR SELECTION TO BE APPROVED BY OWNER PRIOR TO INSTALLATION													

BACKFLOW PREVENTER SCHEDULE										
UNIT TAG	SIZE	LOCATION	SERVICE	BODY MATERIAL	TEMPERATURE RANGE	MAX WORKING PRESSURE	MANUFACTURER		REMARKS	
BFP-4	2	PUMP HOUSE	FIRE PROTECTION - FILL	BRONZE	33°F MIN - 140°F MAX	180	WATTS SERIES 909		-	

## Fire Protection Specifications

PREACTION SYSTEM: THE SYSTEM SHALL ANNUNCIATE AT THE RELEASE PANEL AND AT THE FACD UPON THE OPERATION OF A SINGLE SMOKE DETECTOR, PULL STATION OR THE LOSS OF SUPERVISORY AIR PRESSURE. SYSTEM RELEASE SHALL OCCUR UPON THE VERIFIED DETECTION (TWO SMOKE DETECTORS) WITHIN AN INDIVIDUAL ROOM OR WITH THE OPERATION OF A MANUAL PULL STATION.

PRIOR TO INCLUSION OF SPRINKLER PIPING AND EQUIPMENT, CONTRACTOR SHALL HAVE SUBMITTED SPRINKLER PLANS AND CALCULATIONS TO ENGINEER FOR REVIEW AND TO RATING BUREAU FOR REVIEW.

AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING ARE RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.

THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE RELATIVE TO ACCEPTABILITY OF INSTALLATIONS.

SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW FOR ACCEPTABILITY OF INSTALLATIONS.

ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.

THE GENERAL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

### SHOP DRAWINGS

PROVIDE HYDRAULIC CALCULATION SUMMARY ON SHOP DRAWINGS INCLUDING DESIGN CRITERIA, PRESSURE AND GPM REQUIRED, PRESSURE AND GPM AVAILABLE.

LABEL OCCUPANCY OF ALL SPACES. CLEARLY LABEL ALL PIPING AND EQUIPMENT INCLUDING SIZES, NAMES, MODELS, ETC.

PROVIDE A FULL HEIGHT BUILDING CROSS SECTION INCLUDING SPRINKLER RISER DIAGRAM.

CONTRACTOR TO PROVIDE NEW LESS THAN 1 YEAR OLD WATER FLOW DATA WHICH SHALL BE UTILIZED TO HYDRAULICALLY CALCULATE FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13.

### MATERIALS (UL/ULN APPROVED)

#### INTERIOR PIPING

STANDARD WEIGHT BLACK STEEL, (SCHEDULE 40) EXCEPT AS NOTED FOR SIZES 1" AND LARGER.

SCHEDULE 10 BLACK STEEL PIPE MAY BE USED FOR SIZES 7" AND LARGER.

GALVANIZED PIPE FOR ALL DRAIN PIPING. TEST PIPING: PIPING BETWEEN FIRE DEPARTMENT CONNECTION AND CHECK VALVE AND FOR ALL DRY & DELUGE PIPING.

#### EXTERIOR PIPING

1. DUCTILE IRON, CHIENT LINE, CLASS 52 WITH PROPER RESTRAINTS AND THROST BLOCKS PER NFPA 24.

#### FITTINGS

CAST IRON FLANGED, STANDARD WEIGHT, ANSI B-16.4.

CAST IRON FLANGED, STANDARD WEIGHT, ANSI B-16.1.

MALLEABLE IRON THREADED, STANDARD WEIGHT, ANSI B-16.3.

GROOVED END AND MECHANICAL TYPE MALLEABLE IRON, WITH RUBBER SEALING GASKETS, SIMILAR TO VICTALIC CO.

SOLDER JOINTS SHALL BE PERMITTED FOR EXPOSED WET PIPE SYSTEMS IN LIGHT HAZARD OCCUPANCIES WHERE THE TEMPERATURE CLASSIFICATION OF THE INSTALLED SPRINKLERS IS OF THE ORDINARY OR INTERMEDIATE TEMPERATURE CLASSIFICATION.

SOLDERING FLUXES SHALL BE IN ACCORDANCE WITH NFPA 13.

BRAZING FLUXES, IF USED, SHALL NOT BE OF A HIGHLY CORROSIVE TYPE D.

#### SLEEVES

STANDARD WEIGHT GALVANIZED SCHEDULE 40, PACKED WITH FIRE AND SMOKE RESISTIVE MATERIAL IN ACCORDANCE WITH NFPA 13.

#### VALVES

GROOVED BUTTERFLY TYPE CONTROL VALVES WITH BUILT-IN TAMPER SWITCHES, SIMILAR TO NIBCO 60776-S.

OS&Y GATE CONTROL VALVES, RESILIENT WEDGE TYPE WITH TAMPER SWITCH, SIMILAR TO NIBCO F-607-015.

CHECK VALVES, GROOVED END SWING CHECK WITH SPRING-LOADED CLAPPER ASSEMBLY, SIMILAR TO CENTRAL MODEL 40.

DRAIN AND TEST VALVES SHALL BE THREADED BRONZE ANGLE OR GLOBE TYPE WITH COMPOSITION DISC, 300 PSI WITH 1/2" 300 PSI WATER PRESSURE GAUGE, SIMILAR TO AGF TESTDRAIN™.

PROVIDE CONTROL PANEL, ACTIVATING SYSTEM PREFACTION AND LOCAL ELECTRIC ALARM BELL. THE CONTROL PANEL SHALL BE CAPABLE OF MULTI-ZONE DETECTION (EACH ROOM WILL BE A SEPARATE ZONE).

PROVIDE AND INSTALL WIRING AND DEVICES AS REQUIRE FOR EQUIPMENT SHUT-DOWN AS DIRECTED BY THE OWNER.

THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL DETECTION, PULL STATIONS, ELECTRICAL DEVICES AND WIRING REQUIRED FOR COMPLETE AND PROPER INSTALLATION.

SYSTEM OPERATION: A MINIMUM OF TWO SMOKE DETECTORS SHALL BE INSTALLED IN EACH ROOM SERVED BY THE

TRANSFORMER AND RELAYS. PROVIDE (1) SET OF DRY CONTACT FOR REMOTE ANNUNCIATION OF LOW WATER ALARM TO THE FIRE PUMP CONTROLLER. PROVIDE AND INSTALL STILLING WEL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. LEVEL CONTROL AND ALARM WIRING SHALL BE PROVIDED AND INSTALLED BY THIS SECTION. WAREKOR CONTROLS, INC. OR BOW CONTROLS.

#### EXECUTION

PROVIDE ADDITIONAL OFFSETS, FITTINGS, VALVES, DRAINS, ETC. WHERE REQUIRED BY COORDINATION AND CONSTRUCTION CONDITIONS.

NO CLOSE WIPERS, BUSHINGS, OR STREET ELBOWS PERMITTED.

RUN PIPING PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND OTHER PIPING. NEATLY SPACED WITH PLUMB VERTICAL PIPING.

PROVIDE SPRINKLERS BELOW ALL EXPOSED DUCTS, COMBINATIONS OF DUCTS OR OTHER OBSTRUCTIONS EXCEEDING 4 FEET IN WIDTH.

NO FIELD WELDING PERMITTED. SHOP WELDING SHALL BE PERFORMED ONLY BY CERTIFIED WELDERS.

TEST ALL UNDERGROUND AND INTERIOR PIPING IN ACCORDANCE WITH NFPA 13.

INSTALL SPRINKLER HEADS IN CEILING AREAS. CENTER OF T.I.E. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF SPRINKLER HEADS. ARCHITECT TO DETERMINE FINISHES.

INSTALL SPRINKLERS THROUGHOUT ALL AREAS INCLUDING COMBUSTIBLE CONCEALED SPACES AND IN ACCORDANCE WITH OBSTRUCTION REQUIREMENTS SET FORTH IN NFPA 13.

#### PUMP HOUSE

THE BUILDING SHALL BE SUPPLIED COMPLETE WITH ALL NECESSARY COMPONENT PARTS TO FORM A COMPLETE BUILDING SYSTEM AND ALL PARTS SHALL BE NEW AND FREE FROM ALL DEFECTS OR IMPERFECTIONS.

THE BUILDING WIDTH AND LENGTH SHALL BE MEASURED FROM THE OUTSIDE OF THE BUILDING WALL PANELS AND THE HEIGHT OF THE BUILDING SHALL BE THE DISTANCE MEASURED FROM THE BOTTOM SURFACE OF THE BASE CHANNEL TO THE EXTERIOR JUNCTION OF THE ROOF AND SIDE WALL PANELS.

#### DESIGN CRITERIA

ALL BUILDINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE LATEST EDITION OF AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND THE AISC SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

EACH BUILDING SHALL BE DESIGNED FOR THE FOLLOWING LOADS.

- THE VERTICAL LIVE LOAD OF THE BUILDING SHALL NOT BE LESS THAN 40 POUNDS PER SQUARE FOOT, APPLIED ON THE HORIZONTAL PROJECTION OF THE ROOF.
- THE HORIZONTAL WIND LOAD OF THE BUILDING SHALL NOT BE LESS THAN 10 MPH AND SHALL BE DISTRIBUTED UNIFORMALLY OVER THE ENTIRE EXTERIOR SURFACE OF THE BUILDING INCLUDING HANGAR VENTERS ASSOCIATION (WMAA) PUBLICATIONS TITLED, "LOW RISE BUILDING SYSTEMS MANUAL."
- THE BUILDING AND PORTION THERE OF SHALL BE DESIGNED TO RESIST THE EFFECTS OF SEISMIC GROUND MOTIONS THAT MIGHT BE EXPECTED IN SEISMIC ZONES.

REDUCTION OF LOADS DUE TO TRIANGULAR LOADED AREAS SHALL NOT BE PERMITTED. ALL COMBINING AND DISTRIBUTING OF AUXILIARY EQUIPMENT LOADS IMPOSED ON THE BUILDING SYSTEM SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE SECTION OF THE WMAA PUBLICATIONS TITLED, "LOW RISE BUILDING SYSTEMS MANUAL."

UPON REQUEST, A COMPLETE DESIGN CERTIFICATION SIGNED AND SEALED BY A REGISTER PROFESSIONAL ENGINEER SHALL BE PROVIDED.

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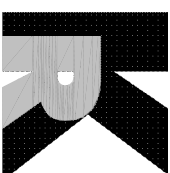
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PROJECT			
TOWN OF WESTON CONNECTICUT 06883			
DEPARTMENT OF PUBLIC WORKS GARAGE SPRINKLERS			
TITLE			
SCHEDULES & SPECIFICATIONS - FIRE PROTECTION			
DRAWN BY:	AC	DRAWING	
CHECKED BY:	KC		
SCALE:	AS NOTED	FP301	
DATE:	07/07/11		

NO.	DATE	REVISION
1	06/02/2011	FIRE MARSHAL REVIEW
2	07/01/2011	OWNER REVIEW

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